

## Accepted Manuscript

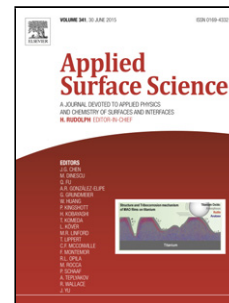
Title: Molten salt-mediated formation of g-C<sub>3</sub>N<sub>4</sub>-MoS<sub>2</sub> for visible-light-driven photocatalytic hydrogen evolution

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# Molten salt-mediated formation of g-C<sub>3</sub>N<sub>4</sub>-MoS<sub>2</sub> for visible-light-driven photocatalytic hydrogen evolution

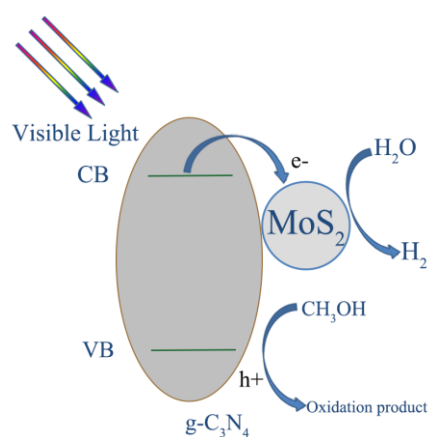
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## Graphical abstract



## Highlights

- Molten salt preparation of 2D g-C<sub>3</sub>N<sub>4</sub> and 2D/2D g-C<sub>3</sub>N<sub>4</sub>-MoS<sub>2</sub> is reported.
- Molten salts are ideal reaction media for formation of homogeneous 2D/2D hybrid.
- Strong interaction between C<sub>3</sub>N<sub>4</sub> and MoS<sub>2</sub> exists in the g-C<sub>3</sub>N<sub>4</sub>-MoS<sub>2</sub> hybrid.
- Enhanced visible light photocatalytic H<sub>2</sub> evolution activity appears in the hybrid.

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